

Comparisons of Job Characteristics

Focus Occupation: [Cardiovascular Technologists and Technicians \(29-2031\)](#)

Associated Occupation: [Emergency Medical Technicians and Paramedics \(29-2041\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 80

Focus Occupation: Cardiovascular Technologists and Technicians (29-2031)

Associated Occupation: Emergency Medical Technicians and Paramedics (29-2041)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Customer and Personal Service	11.3	21.0	18.0	<	Expanded education and/or training may be required
Medicine and Dentistry	3.7	16.4	17.4	0	Current knowledge level may be sufficient
Psychology	6.4	12.5	10.5	<	Expanded education and/or training may be required
Public Safety and Security	6.9	12.4	7.7	<<	Extensive education and/or training may be required
Transportation	4.6	11.7	2.0	<<	Extensive education and/or training may be required
Personnel and Human Resources	5.6	11.2	3.7	<<	Extensive education and/or training may be required
Therapy and Counseling	3.8	10.5	4.0	<<	Extensive education and/or training may be required
Telecommunications	3.9	7.5	4.6	<<	Extensive education and/or training may be required
Biology	3.7	7.0	9.9	>>	Current knowledge level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 88

Focus Occupation: Cardiovascular Technologists and Technicians (29-2031)

Associated Occupation: Emergency Medical Technicians and Paramedics (29-2041)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Service Orientation	7.9	11.9	10.5	<	A higher skill level may be required

Coordination	9.1	11.6	8.4	<<	Extensive development of skills in this area may be required
Active Learning	8.7	11.4	8.8	<<	Extensive development of skills in this area may be required
Science	4.5	11.1	10.6	0	Current skill level may be sufficient
Operation and Control	5.4	9.1	8.0	<	A higher skill level may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 86

Focus Occupation: Cardiovascular Technologists and Technicians (29-2031)

Associated Occupation: Emergency Medical Technicians and Paramedics (29-2041)

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Perceptual Speed	7.4	11.0	9.7	<	Some improvement in abilities may be required
Static Strength	5.0	11.0	5.3	<<	Extensive improvement in abilities may be required
Response Orientation	4.0	10.1	5.0	<<	Extensive improvement in abilities may be required
Time Sharing	6.6	9.1	8.0	<	Some improvement in abilities may be required
Glare Sensitivity	2.6	6.8	1.0	<<	Extensive improvement in abilities may be required
Peripheral Vision	2.2	5.6	1.5	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 88

Focus Occupation: Cardiovascular Technologists and Technicians (29-2031)

Associated Occupation: Emergency Medical Technicians and Paramedics (29-2041)

Work Activities	Exclusivity of Activity
Administer injections	60
Administer medications or treatments	46
Communicate technical information	4
Follow infectious materials procedures	52
Follow patient care procedures	60
Inventory medical supplies or instruments	67
Make presentations on health or medical issues	50
Observe patient condition	48
Prepare patient reports	66

Record medical history or data	68
Take vital signs	56
Understand technical operating, service or repair manuals	6
Use emergency medical procedures	64
Use hazardous materials information	35
Use knowledge of medical terminology	40
Use sanitation practices in health care settings	48

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 68

Focus Occupation: Cardiovascular Technologists and Technicians (29-2031)
Associated Occupation: Emergency Medical Technicians and Paramedics (29-2041)

Tools and Technologies	Exclusivity
Acute care monitoring units and related products	22
Blood pressure units and related products	11
Cardiac pacemakers and related products	43
Computers	1
Data management and query software	1
Electrocardiography EKG units and related products	20
Emergency medical services resuscitation products	15
Industry specific software	1
Injection and aspiration needles and accessories	25
Intravenous and arterial cannulas and catheters and accessories	29
Intravenous and arterial tubing and administration sets and related products	22
Oxygen therapy delivery systems and devices	13
Patient point of care testing supplies and equipment	23
Pulse oximeters	18
Specimen collection and transport containers and supplies	14
Stethoscopes and related products	14
Syringes and accessories	14

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.